



US 20030067198A1

(19) **United States**(12) **Patent Application Publication**

Treen et al.

(10) Pub. No.: US 2003/0067198 A1

(43) Pub. Date: Apr. 10, 2003

(54) **BOOSTER SEAT**

Publication Classification

(76) Inventors: J. Michael Treen, Jamaica Plain, MA
(US); Jorge Tomas, Wrentham, MA
(US); Michael T. Fusco, Johnston, RI
(US); Brian Sundberg, Chester, NH
(US)

(51) Int. Cl.⁷ A47D 1/10

(52) U.S. Cl. 297/250.1

Correspondence Address:

George L. Greenfield
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, MA 02210 (US)

(21) Appl. No.: 10/241,608

(22) Filed: Sep. 11, 2002

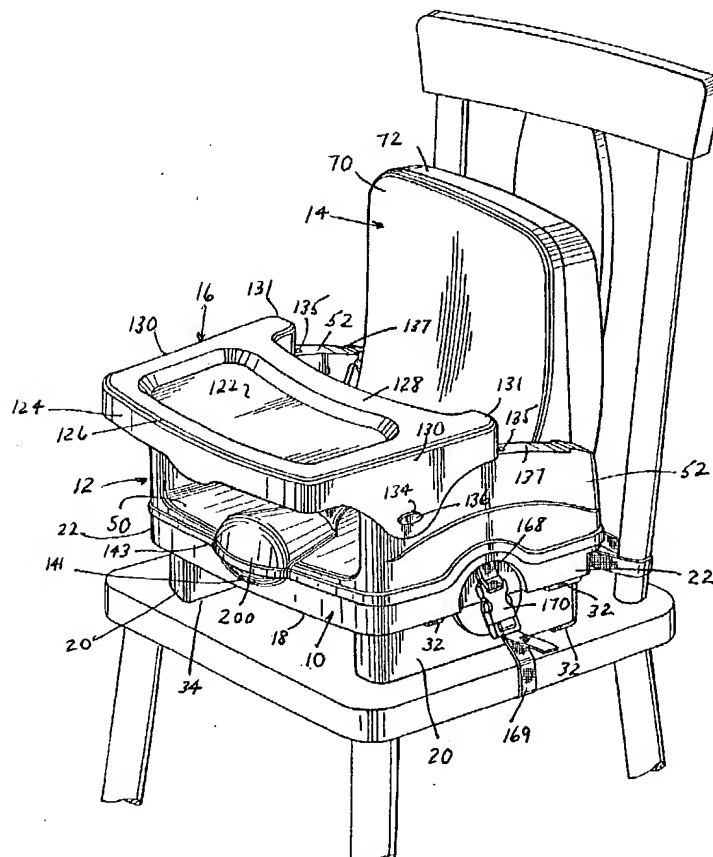
Related U.S. Application Data

(60) Provisional application No. 60/322,404, filed on Sep.
14, 2001.

(57)

ABSTRACT

A booster seat having a base 10 with foldable legs 20 to raise and lower the base. A seat assembly 12 is provided on the base having a seating surface 50 and arms 52. A backrest 14 is pivotally connected to the seat assembly 12 and moves between an operative erect position and a stored collapsed position wherein it lies substantially parallel to and closely adjacent the seating surface 50. A tray 16 is selective mountable on the seat assembly 12 for use by a child seated in the booster and a stored position on the bottom of the base 10. A retractable strap assembly is mounted in the base having one pair of straps 168 and 169 for wrapping around the seat and a second pair of straps 164 and 165 for wrapping around the back of a chair on which the booster is supported.





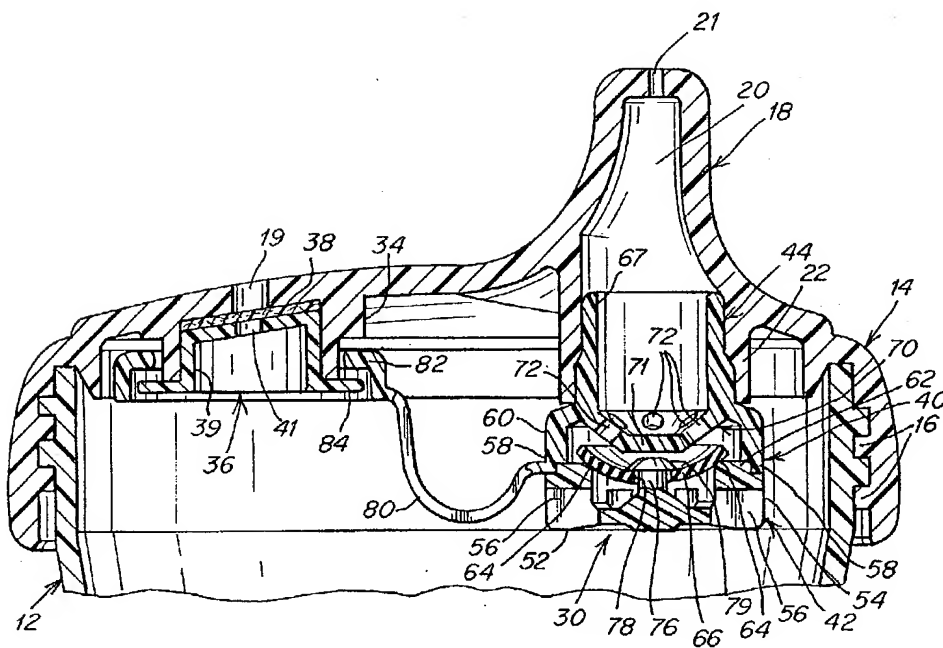
US 20010035420A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2001/0035420 A1****Fusco et al.**(43) **Pub. Date: Nov. 1, 2001**(54) **SPILL PROOF TRAINING CUP**(52) **U.S. Cl. 220/714**(76) **Inventors: Michael Fusco, Johnston, RI (US);
William St. Pierre, Forestdale, MA
(US)**(57) **ABSTRACT**

Correspondence Address:

**WOLF GREENFIELD & SACKS, PC
FEDERAL RESERVE PLAZA
600 ATLANTIC AVENUE
BOSTON, MA 02210-2211 (US)**(21) **Appl. No.: 09/803,844**(22) **Filed: Mar. 12, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No.
60/189,832, filed on Mar. 16, 2000.****Publication Classification**(51) **Int. Cl.⁷ A47G 19/22**

A no spill training cup includes a cup and cover with a drinking spout in the cover. The cover also has a vent opening for maintaining the ambient pressure in the cup with the vent opening being covered by a hydrophobic membrane that allows the flow of air into the cup but prevents liquid from flowing out of the cup through the vent opening. A valve housing is attached to the cover on the inlet side of the spout. The valve includes a diaphragm supported in the housing and biased to engage a valve seat in the housing to prevent flow of liquid from the cup to the spout. When a child sucks on the spout, the pressure on the outlet side of the diaphragm causes it to disengage the valve seat and allow the liquid to flow out of the cup through the spout. When the child stops sucking on the spout, the valve immediately returns to its closed position on the seat so as to prohibit the flow of liquid from the cup through the spout.





US006773064B2

(12) **United States Patent**
Treen et al.

(10) Patent No.: **US 6,773,064 B2**
(45) Date of Patent: **Aug. 10, 2004**

(54) **BOOSTER SEAT**

(75) Inventors: **J. Michael Treen**, Jamaica Plain, MA
(US); **Jorge Tomas**, Wrentham, MA
(US); **Michael T. Fusco**, Johnston, RI
(US); **Brian Sundberg**, Chester, NH
(US)

(73) Assignee: **Cosco Management, Inc.**, Wilmington,
DE (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/241,608**

(22) Filed: **Sep. 11, 2002**

(65) **Prior Publication Data**

US 2003/0067198 A1 Apr. 10, 2003

Related U.S. Application Data

(60) Provisional application No. 60/322,404, filed on Sep. 14,
2001.

(51) Int. Cl.⁷ **A47D 1/10**

(52) U.S. Cl. **297/255; 297/153**

(58) Field of Search **297/17, 54, 153,**
297/250.1, 255, 256.16

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,163,628 A * 12/1915 Gibson 297/153
1,739,366 A 12/1929 Lang
2,089,090 A * 8/1937 Di Giacomo et al. 297/129
2,603,274 A * 7/1952 McClermon 297/37
3,516,709 A 6/1970 Nader

3,635,522 A * 1/1972 Kerwit 297/153
3,909,061 A * 9/1975 Johnson 297/17
4,193,630 A * 3/1980 Steele 297/17
5,183,311 A 2/1993 Meeker et al.
5,234,143 A 8/1993 Mahvi et al.
5,335,968 A * 8/1994 Sheridan et al. 297/250.1
5,474,355 A 12/1995 Lerner et al.
5,609,389 A 3/1997 Longoria et al.

FOREIGN PATENT DOCUMENTS

EP 0 369 693 5/1990

OTHER PUBLICATIONS

PCT/US02/29201 international search report dated Feb. 12,
2002.

* cited by examiner

Primary Examiner—Peter M. Cuomo

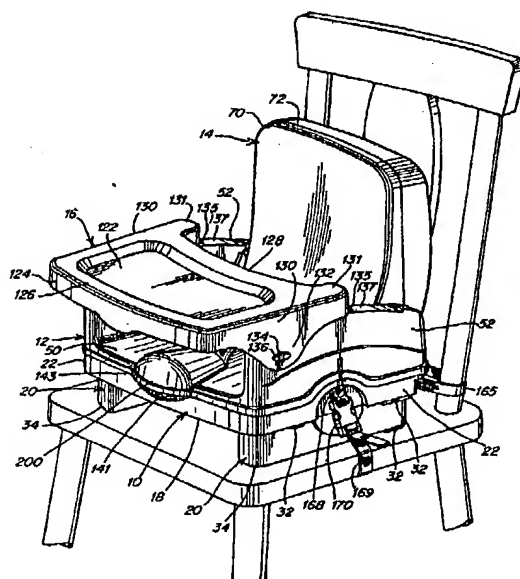
Assistant Examiner—Joseph Edell

(74) *Attorney, Agent, or Firm*—Barnes & Thornburg LLP

(57) **ABSTRACT**

A booster seat having a base 10 with foldable legs 20 to raise and lower the base. A seat assembly 12 is provided on the base having a seating surface 50 and arms 52. A backrest 14 is pivotally connected to the seat assembly 12 and moves between an operative erect position and a stored collapsed position wherein it lies substantially parallel to and closely adjacent the seating surface 50. A tray 16 is selectively mountable on the seat assembly 12 for use by a child seated in the booster and a stored position on the bottom of the base 10. A retractable strap assembly is mounted in the base having one pair of straps 168 and 169 for wrapping around the seat and a second pair of straps 164 and 165 for wrapping around the back of a chair on which the booster is supported.

31 Claims, 8 Drawing Sheets





US006699050B1

(12) **United States Patent**
Wong et al.

(10) **Patent No.:** **US 6,699,050 B1**
(45) **Date of Patent:** **Mar. 2, 2004**

(54) **LOCKABLE ELECTRICAL OUTLET
CLOSURE PLUG**

(75) Inventors: **Anthony Wong**, Franklin, MA (US);
Michael Fusco, Johnston, RI (US);
Dana E. Chicca, Swansea, MA (US)

(73) Assignee: **Cosco Management, Inc.**, Wilmington,
DE (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/360,972**

(22) Filed: **Feb. 7, 2003**

(51) Int. Cl.⁷ **H01R 13/44**

(52) U.S. Cl. **439/148; 174/67**

(58) Field of Search **439/134, 133,**
439/148, 149; 174/66, 67; 220/242, 3.8

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,159,858 A 7/1979 Toraya
4,302,624 A 11/1981 Newman
4,640,564 A 2/1987 Hill

4,733,017 A 3/1988 Wolfe-Taylor et al.
5,024,603 A * 6/1991 Hsieh 439/148
5,080,599 A * 1/1992 Wimberly 439/142
5,240,426 A 8/1993 Barla
5,320,542 A * 6/1994 Cheng 439/148
5,691,507 A * 11/1997 Wei 174/67

FOREIGN PATENT DOCUMENTS

GB 935829 9/1963
GB 2 220 803 A 1/1990

* cited by examiner

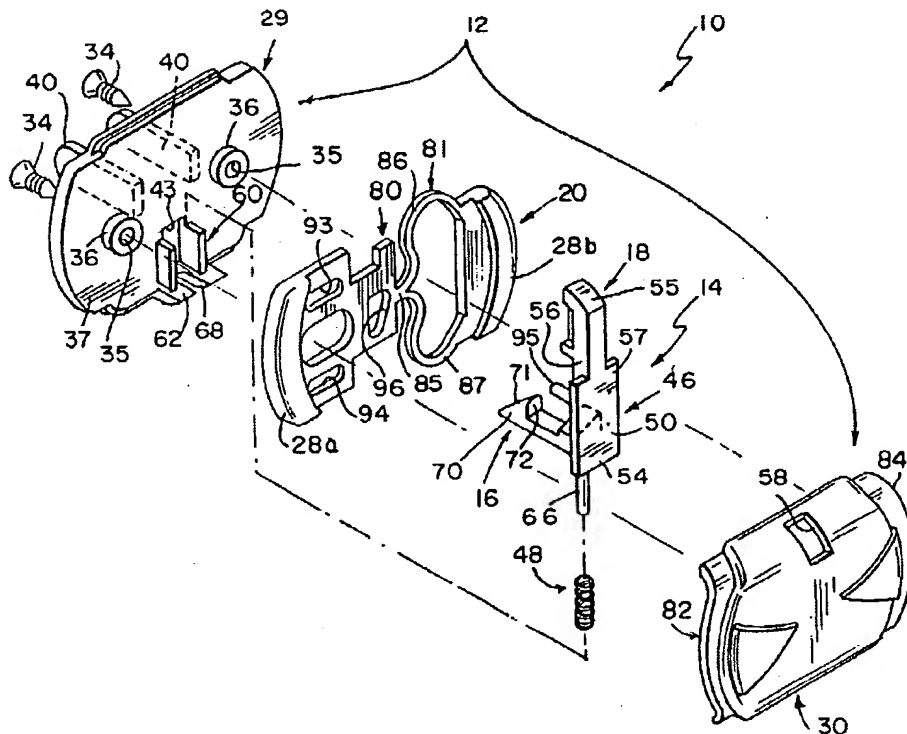
Primary Examiner—Ross Gushi

(74) *Attorney, Agent, or Firm*—Barnes & Thornburg

(57) **ABSTRACT**

A lockable electrical outlet socket closure plug includes a plug housing including an inner plate and a socket blade appended to the inner plate and adapted to extend into a blade receiver opening formed in the electrical outlet socket. The closure plug further includes a retainer for selectively retaining the plug housing in a mounted position on an electrical outlet socket and a controller mounted for movement in the plug housing and arranged normally to reinforce the retainer to cause the plug housing to remain in the mounted position on the electrical outlet socket.

28 Claims, 4 Drawing Sheets





US006568557B2

(12) **United States Patent**
Fusco et al.

(10) **Patent No.:** **US 6,568,557 B2**
(45) **Date of Patent:** **May 27, 2003**

(54) **SPILL PROOF TRAINING CUP**

(75) **Inventors:** Michael T. Fusco, Johnston, RI (US);
William St. Pierre, Forestdale, MA
(US)

(73) **Assignee:** Cosco Management, Inc., Wilmington,
DE (US)

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

3,635,380 A	1/1972	Fitzgerald
3,727,808 A	4/1973	Fitzgerald
3,807,445 A	4/1974	McPhee
3,822,720 A	7/1974	Souza
3,889,710 A	6/1975	Brost
3,915,331 A	10/1975	Chenault
3,954,121 A	5/1976	Kardos
3,967,748 A	7/1976	Albert
4,113,135 A	9/1978	Yamazaki
4,135,513 A	1/1979	Arisland
4,141,379 A	2/1979	Manske
4,181,145 A	1/1980	Mitchell

(List continued on next page.)

(21) **Appl. No.:** **09/803,844**

(22) **Filed:** **Mar. 12, 2001**

(65) **Prior Publication Data**

US 2001/0035420 A1 Nov. 1, 2001

Related U.S. Application Data

(60) **Provisional application No.** 60/189,832, filed on Mar. 16,
2000.

FOREIGN PATENT DOCUMENTS

EP	0634922 B1	1/1995
FR	1 417 355	2/1966
GB	2169210	7/1986
GB	2 266 045 A	10/1993
GB	2266045	9/1996
GB	2 314 497 A	1/1998
JP	08034452	2/1996

(51) **Int. Cl.⁷** **A47G 19/22**

(52) **U.S. Cl.** **220/714; 215/11.5; 222/482**

(58) **Field of Search** **220/714; 215/11.4,**
215/11.5, DIG. 7; 222/482

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,797,280 A	3/1931	Zerk
2,107,442 A	2/1938	Hughes
2,223,944 A	12/1940	Roy
2,569,073 A	9/1951	Robinson
2,674,318 A	4/1954	Sutliff
2,876,772 A	3/1959	Witz
3,155,110 A	11/1964	Hoffman
3,159,176 A	12/1964	Russell et al.
3,228,418 A	1/1966	Rosback et al.
3,245,428 A	4/1966	Klimak et al.
3,504,699 A	4/1970	Grise
3,517,682 A	6/1970	Smith
3,626,978 A	12/1971	Koekstra
3,633,613 A	1/1972	Julow

Primary Examiner—Joseph M. Moy

(74) **Attorney, Agent, or Firm**—Barnes & Thornburg

(57) **ABSTRACT**

A no spill training cup includes a cup and cover with a drinking spout in the cover. The cover also has a vent opening for maintaining the ambient pressure in the cup with the vent opening being covered by a hydrophobic membrane that allows the flow of air into the cup but prevents liquid from flowing out of the cup through the vent opening. A valve housing is attached to the cover on the inlet side of the spout. The valve includes a diaphragm supported in the housing and biased to engage a valve seat in the housing to prevent flow of liquid from the cup to the spout. When a child sucks on the spout, the pressure on the outlet side of the diaphragm causes it to disengage the valve seat and allow the liquid to flow out of the cup through the spout. When the child stops sucking on the spout, the valve immediately returns to its closed position on the seat so as to prohibit the flow of liquid from the cup through the spout.

32 Claims, 3 Drawing Sheets

